

Typical Properties of Thermoplastics

EMAREX™ 300 GF43
43% Glass Fiber Reinforced Nylon 6

Further information and details are available upon request.

Properties	Test Method	English	Units	S.I.	Units
PHYSICAL					
Specific Gravity	D 792	NA	1.48	NA	1.48
Linear Mold Shrinkage	D 955	in/in	0.002	%	0.2
Relative Viscosity	D 789	cP	50.0	kPa's	50.0
Hardness, Rockwell	D 785	R	121	R	121
Water Absorption	D 570	%	0.80	%	0.80
Melt Point	D 789	F	419	C	215
Reinforcement Content	D 2584	%	43+/-2	%	43+/-2
MECHANICAL					
Tensile Strength @ Yield	D 638	psi	24,000	MPa	165
Elongation @ Break	D 638	%	2.0	%	2.0
Flexural Modulus,	D790	kpsi	1,500	MPa	10,335
Flexural Strength	D790	psi	35,000	MPa	241
Izod Impact, notched. 73°F (23°C)	D256	ft-lb/in	1.5	J/m	80
THERMAL					
Deflection Temperature, 66 psi (0.455MPa), Load 264 psi (1.82 MPa), Load	D 648				
		°F	425	°C	218
		°F	405	°C	210

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